

REPLACEMENT SHEET

Appln. Filing Date: April 26, 2001
Title: METHOD AND SYSTEM FOR CONTROLLING A
POLICY-BASED NETWORK
Inventor(s): Yasusi Kanada et al.
Appln. No.: 09/842,130

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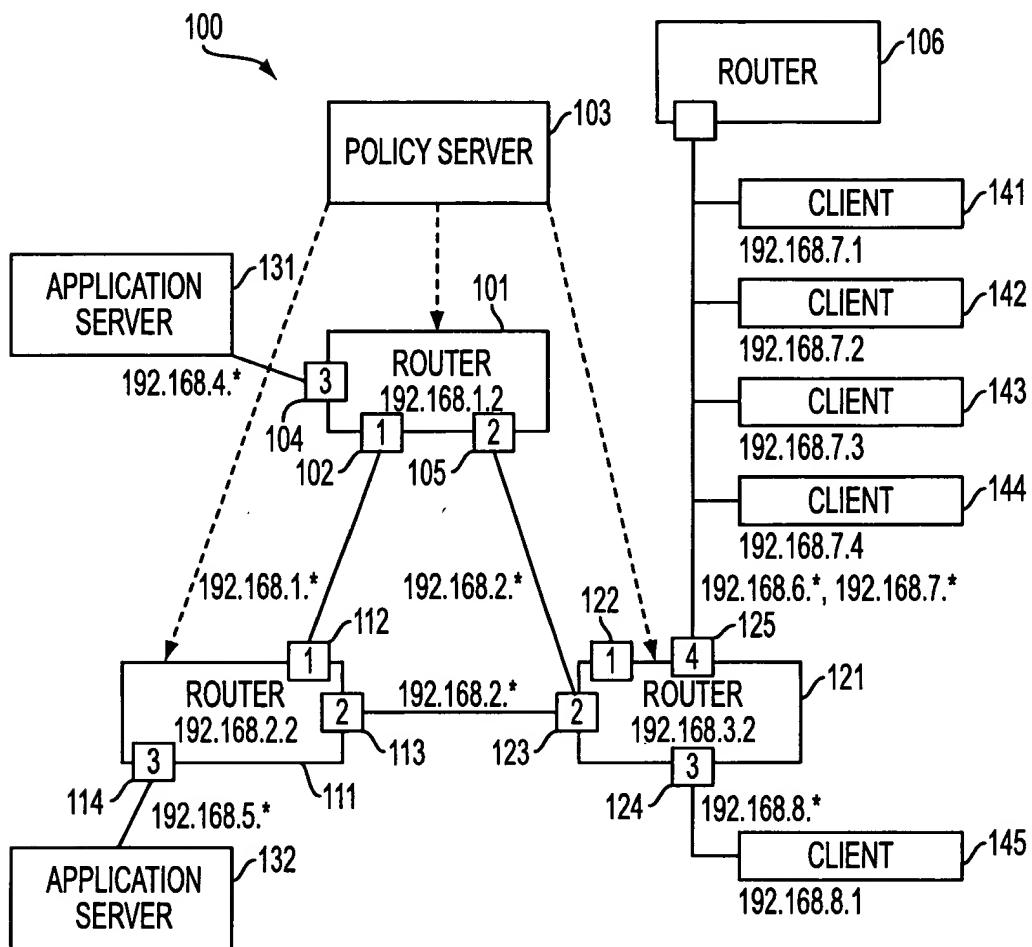


FIG. 1

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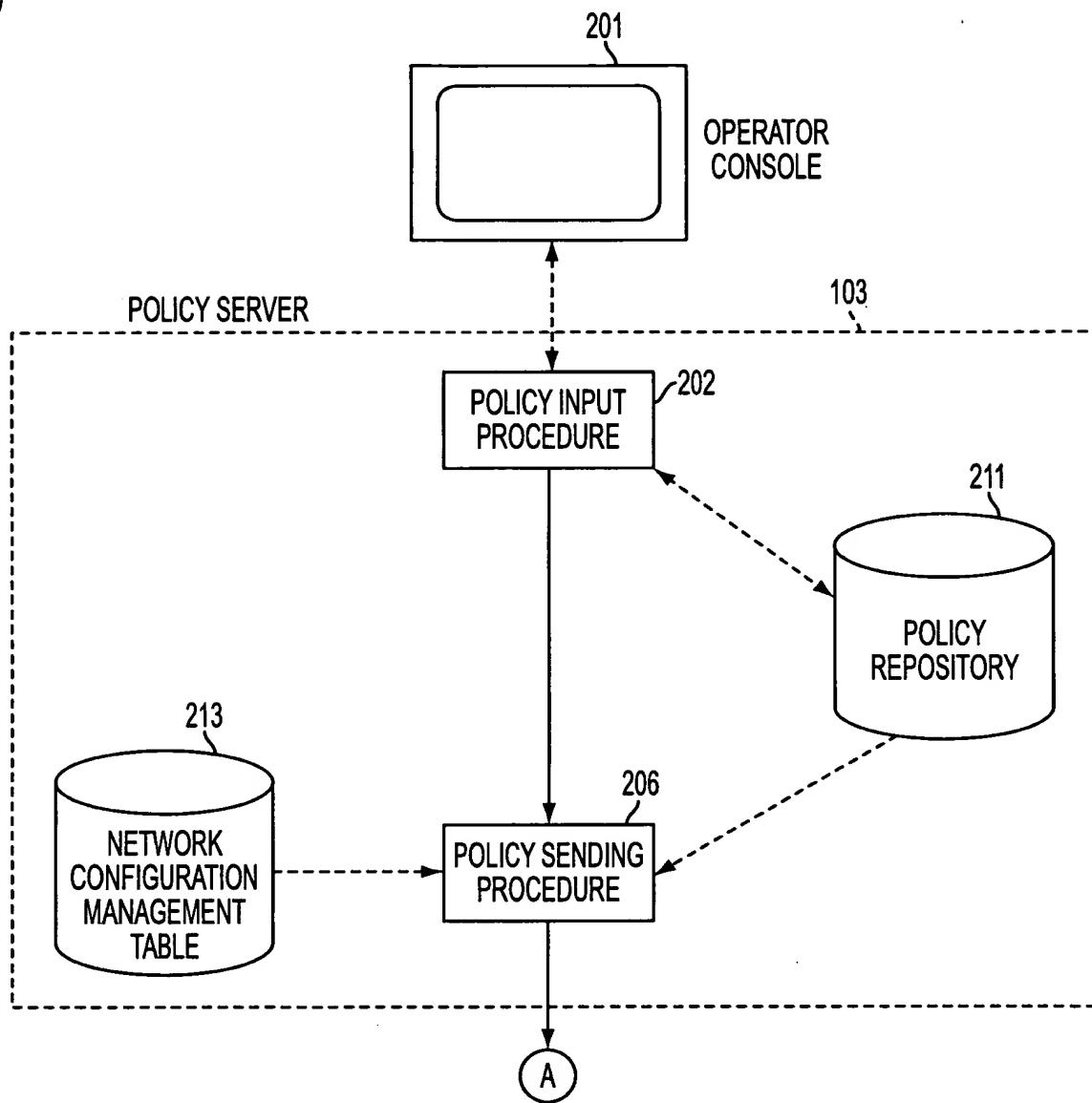


FIG. 2

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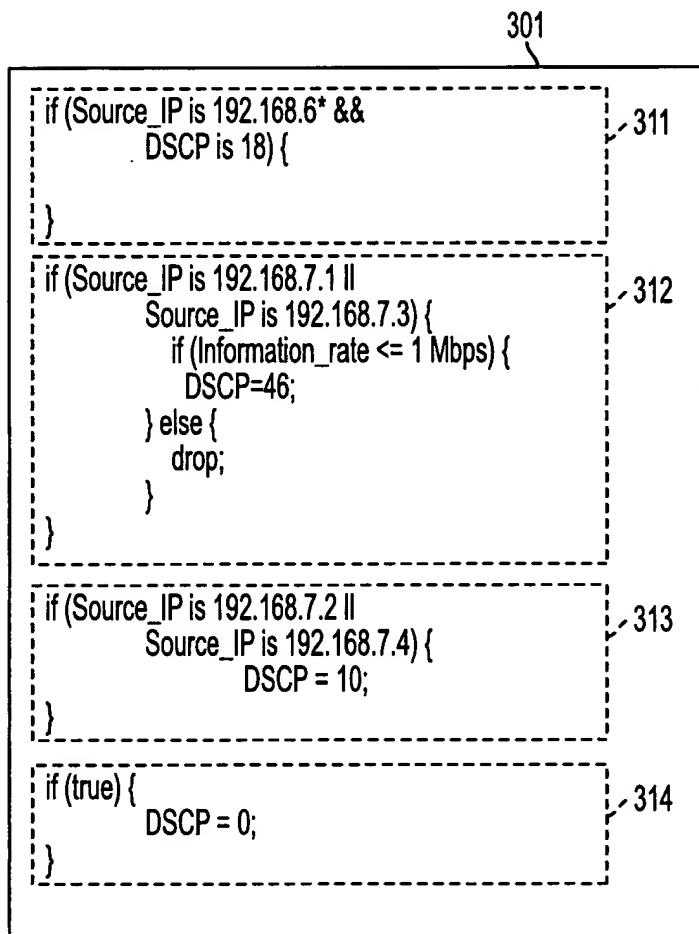


FIG. 3A

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```
if (DSCP is 46) { 361
    Scheduling_algorithm = "Priority";
    Queue_priority = 6;
}

if (DSCP is 10) { 362
    Scheduling_algorithm = "Priority";
    Queue_priority = 5;
}

if (DSCP is 18) { 363
    Scheduling_algorithm = "Priority";
    Queue_priority = 5;
}

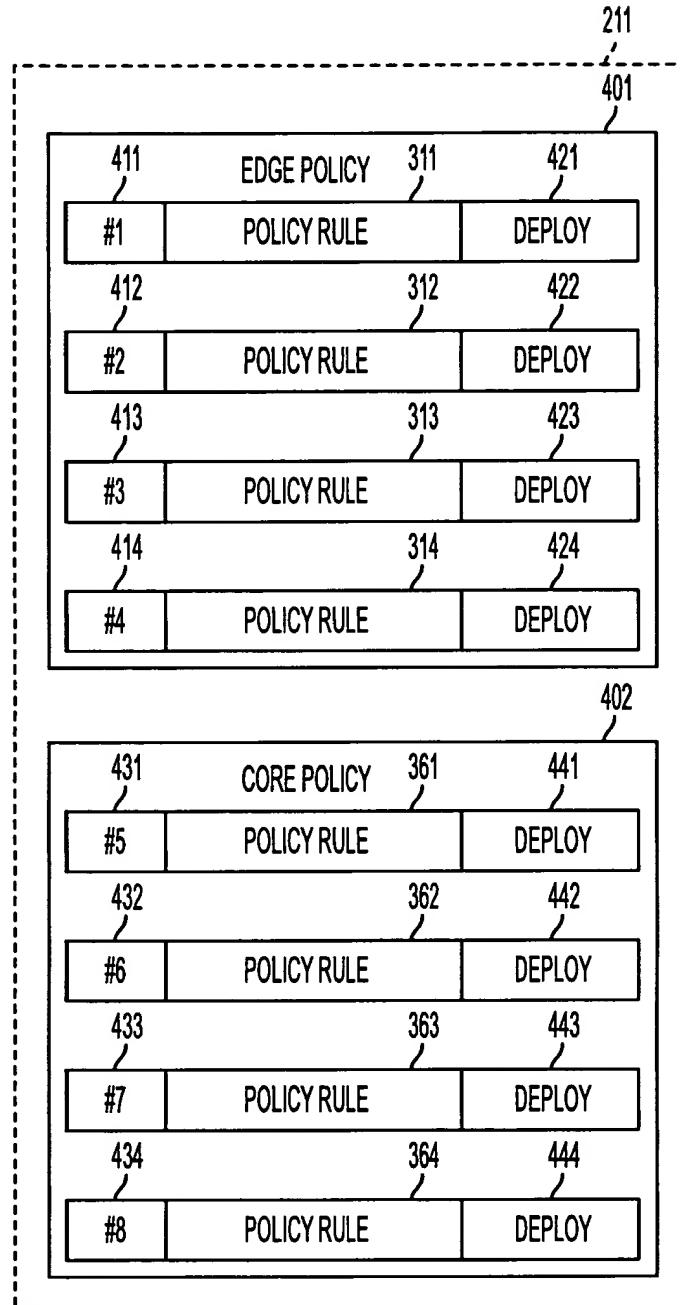
if (true) { 364
    Scheduling_algorithm = "Priority";
    Queue_priority = 2;
}
```

FIG. 3B

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**FIG. 4**

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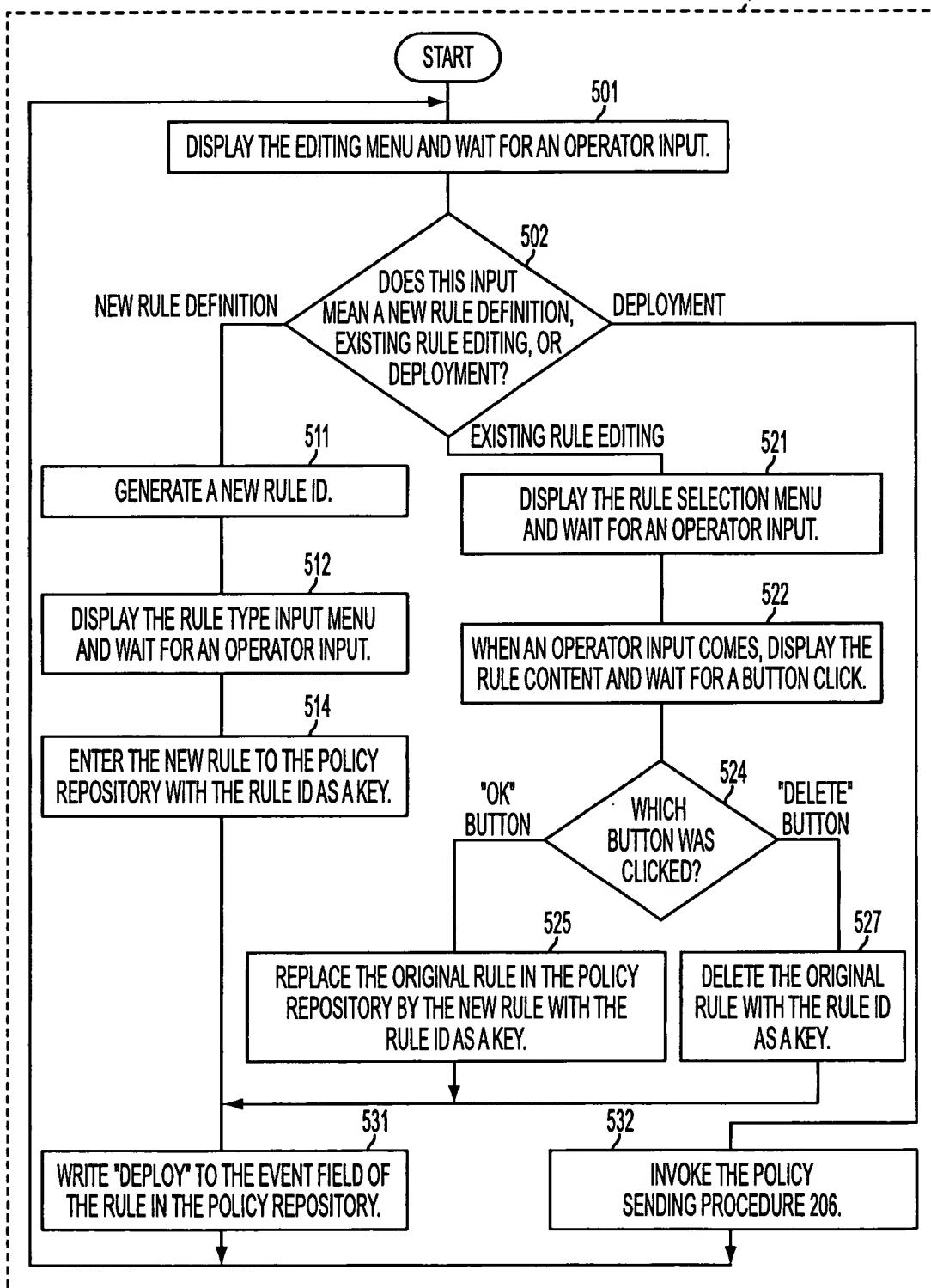


FIG. 5



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TARGET IP ROUTER IP INTERFACE

192.168.4.*	192.168.1.2	3	← 602
192.168.5.*	192.168.2.2	3	← 603
192.168.6.*	192.168.3.2	4	← 604
192.168.7.*	192.168.3.2	4	← 605

↑ ↑ ↑
 611 612 613

FIG. 6

1111

RULE ID POLICY TYPE RULE INTERFACE CODEP

#1	EDGE	→ 311	4	90	← 1011
#2	EDGE	→ 312	4	118	← 1012
#3	EDGE	→ 313	4	174	← 1013
#4	EDGE	→ 314	1,2,3,4	230	← 1014
#5	CORE	→ 361	1,2,3,4	332	← 1015
#6	CORE	→ 362	1,2,3,4	364	← 1016
#7	CORE	→ 363	1,2,3,4	300	← 1017
#8	CORE	→ 364	1,2,3,4	428	← 1018

↑ ↑ ↑ ↑ ↑
 1021 1022 1023 1024 1025

FIG. 10

1101

LABEL LABEL DEFINING REFERRING
 TYPE VALUE RULE RULE

DSCP	18	#1	#7	← 1111
DSCP	46	#2	#5	← 1112
DSCP	10	#3	#6	← 1113
DSCP	0	#3	#8	← 1114

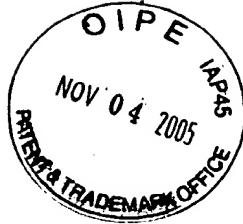
↑ ↑ ↑ ↑
 1121 1122 1123 1124

FIG. 11

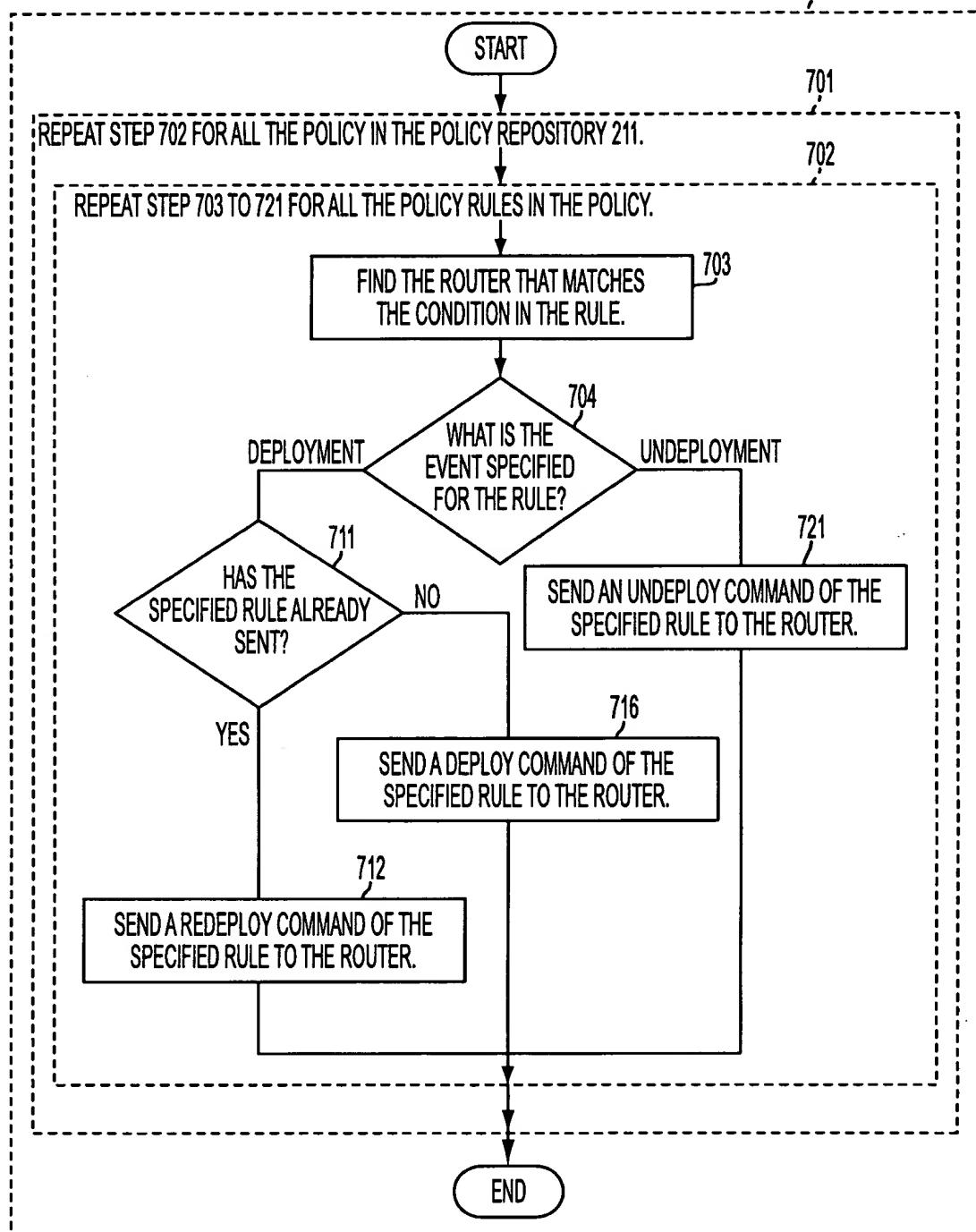
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**FIG. 7**

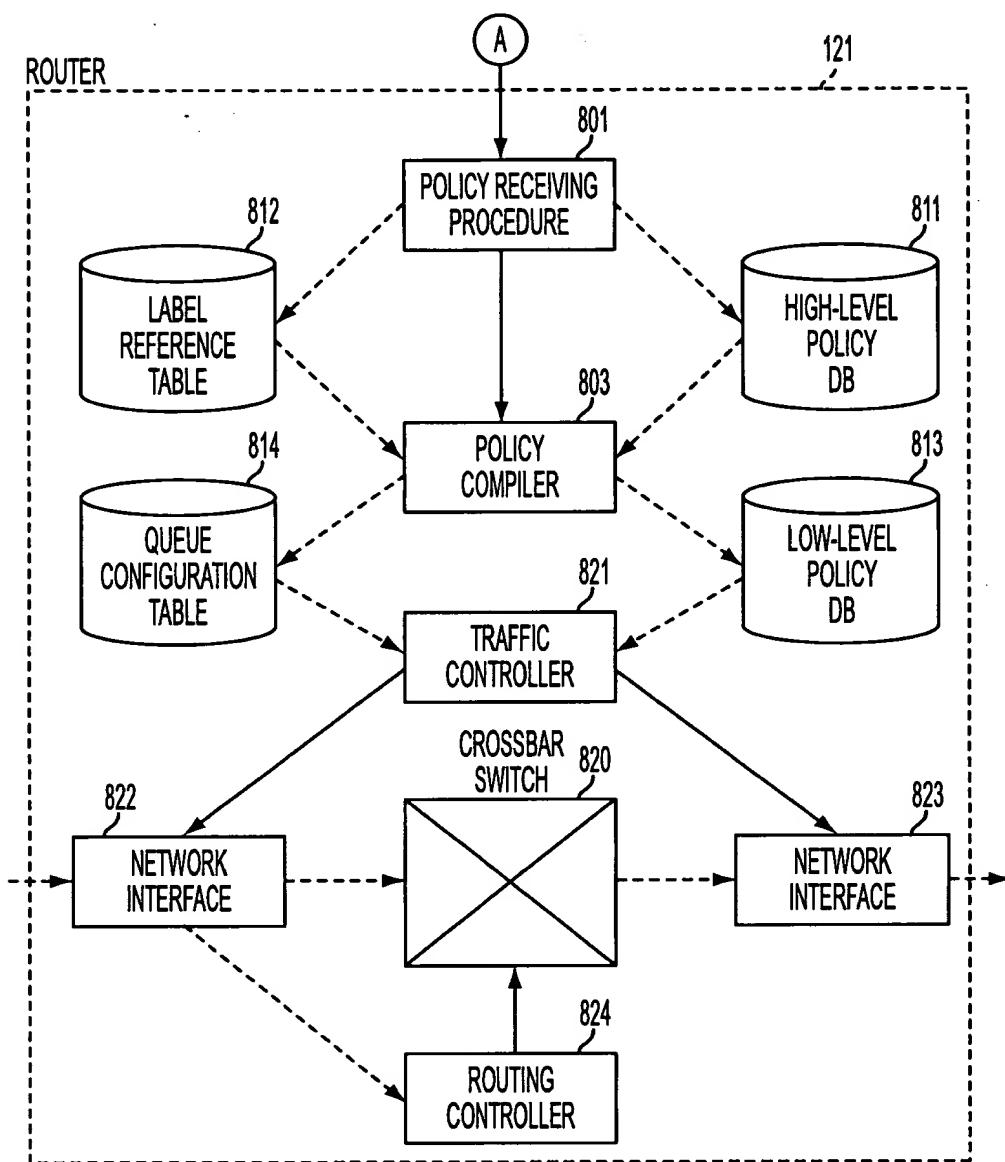


FIG. 8

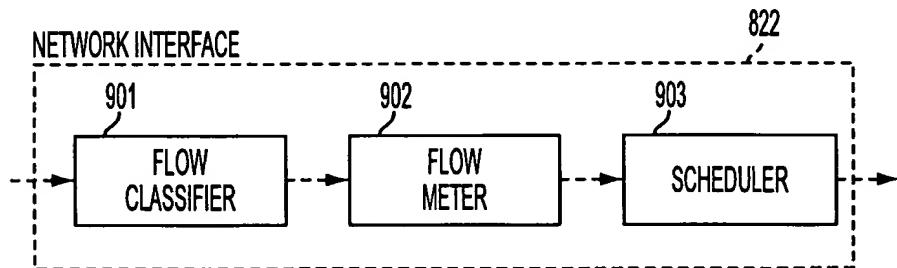


FIG. 9



801

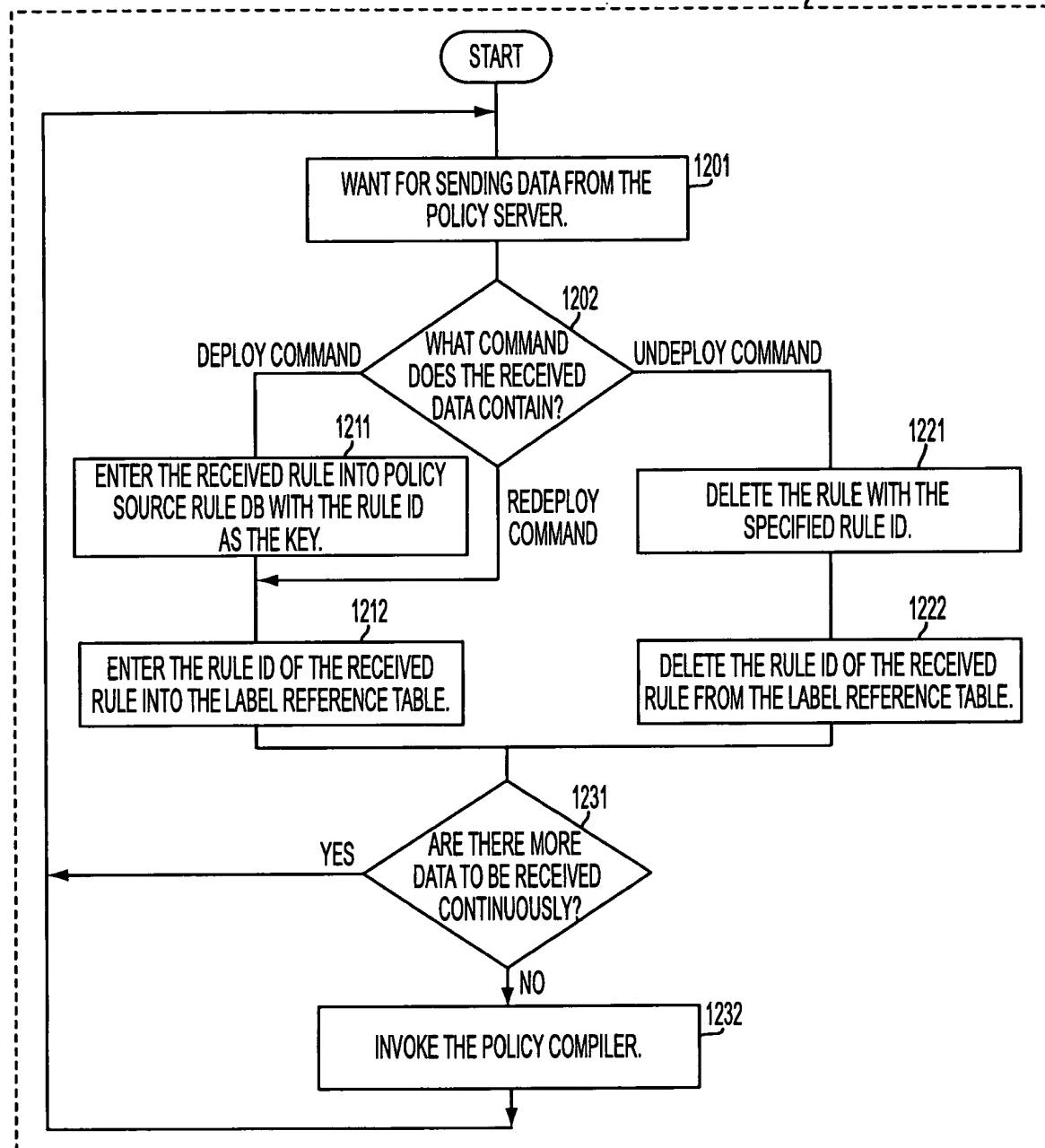


FIG. 12

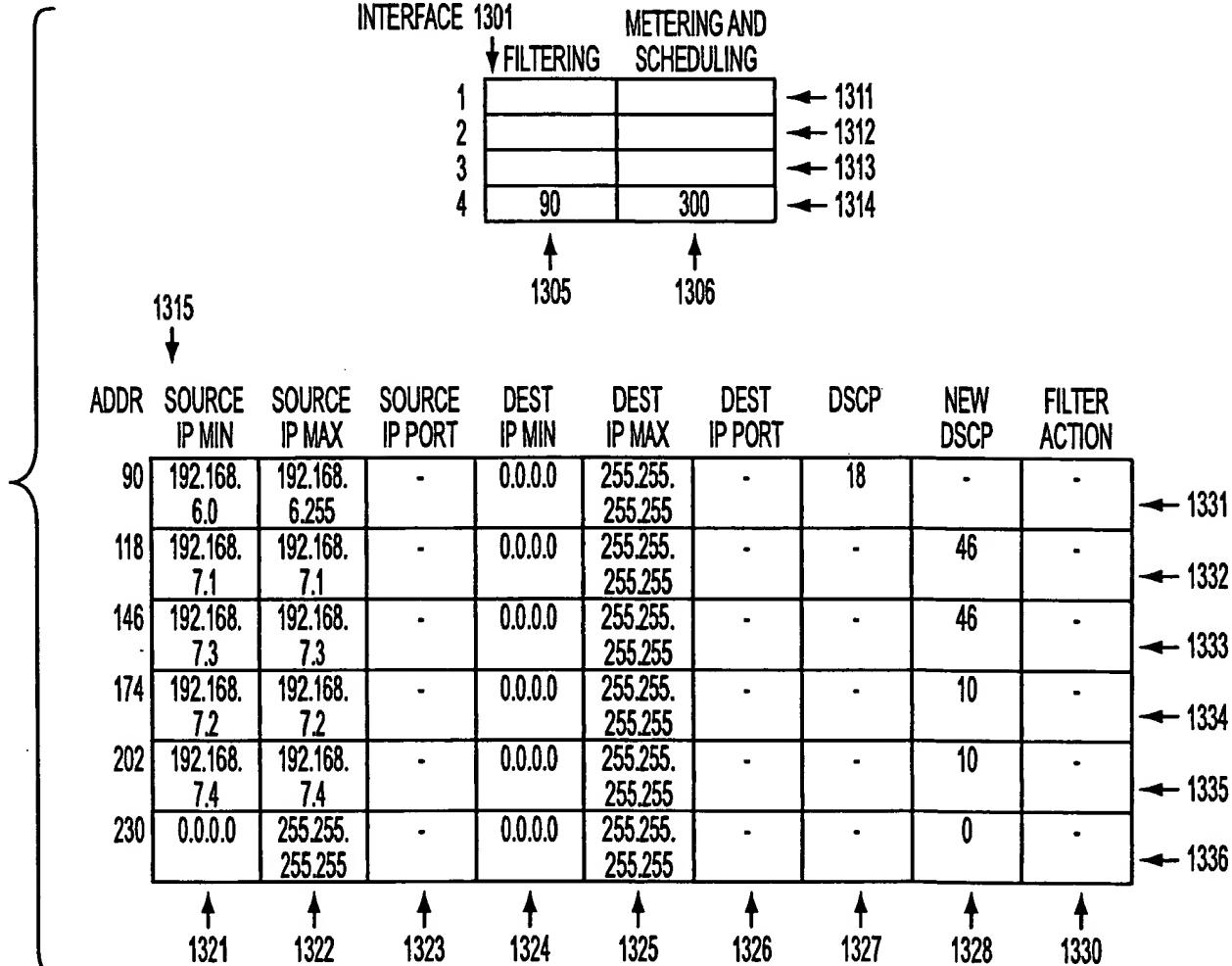


FIG. 13

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↓

ADDR	SOURCE IP MIN	SOURCE IP MAX	SOURCE IP PORT	DEST IP MIN	DEST IP MAX	DEST IP PORT	DSCP	INFO. RATE	IN QUEUE	OUT DSCP	OUT QUEUE	OUT DROP
300	192.168.6.0	192.168.6.255	-	0.0.0.0	255.255.255.255	-	18	-	5	-	-	-
332	0.0.0.0	255.255.255.255	-	0.0.0.0	255.255.255.255	-	46	1000	6	-	-	DROP
364	192.168.7.2	192.168.7.2	-	0.0.0.0	255.255.255.255	-	10	-	5	-	-	-
396	192.168.7.4	192.168.7.4	-	0.0.0.0	255.255.255.255	-	10	-	5	-	-	-
428	0.0.0.0	255.255.255.255	-	0.0.0.0	255.255.255.255	-	-	-	2	-	-	-

↑ 1341 ↑ 1342 ↑ 1343 ↑ 1344 ↑ 1345 ↑ 1346 ↑ 1347 ↑ 1348 ↑ 1349 ↑ 1350 ↑ 1351 ↑ 1352

FIG. 14

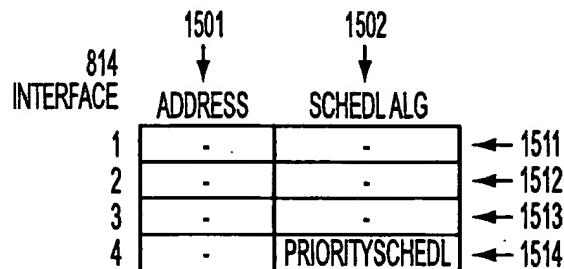


FIG. 15

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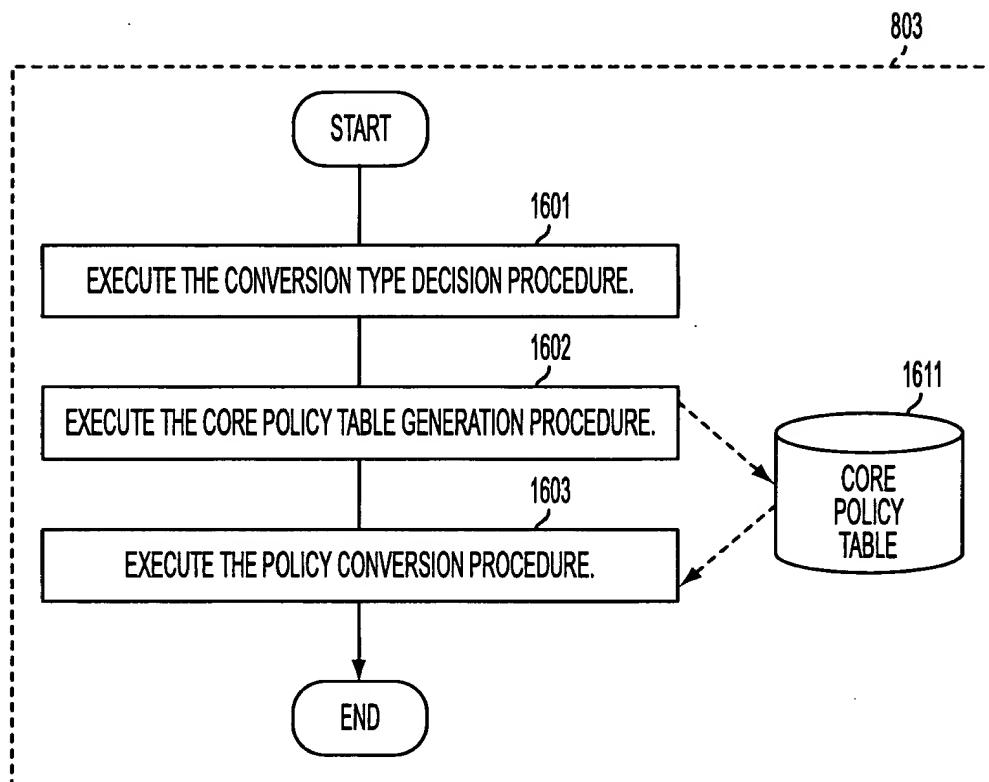


FIG. 16

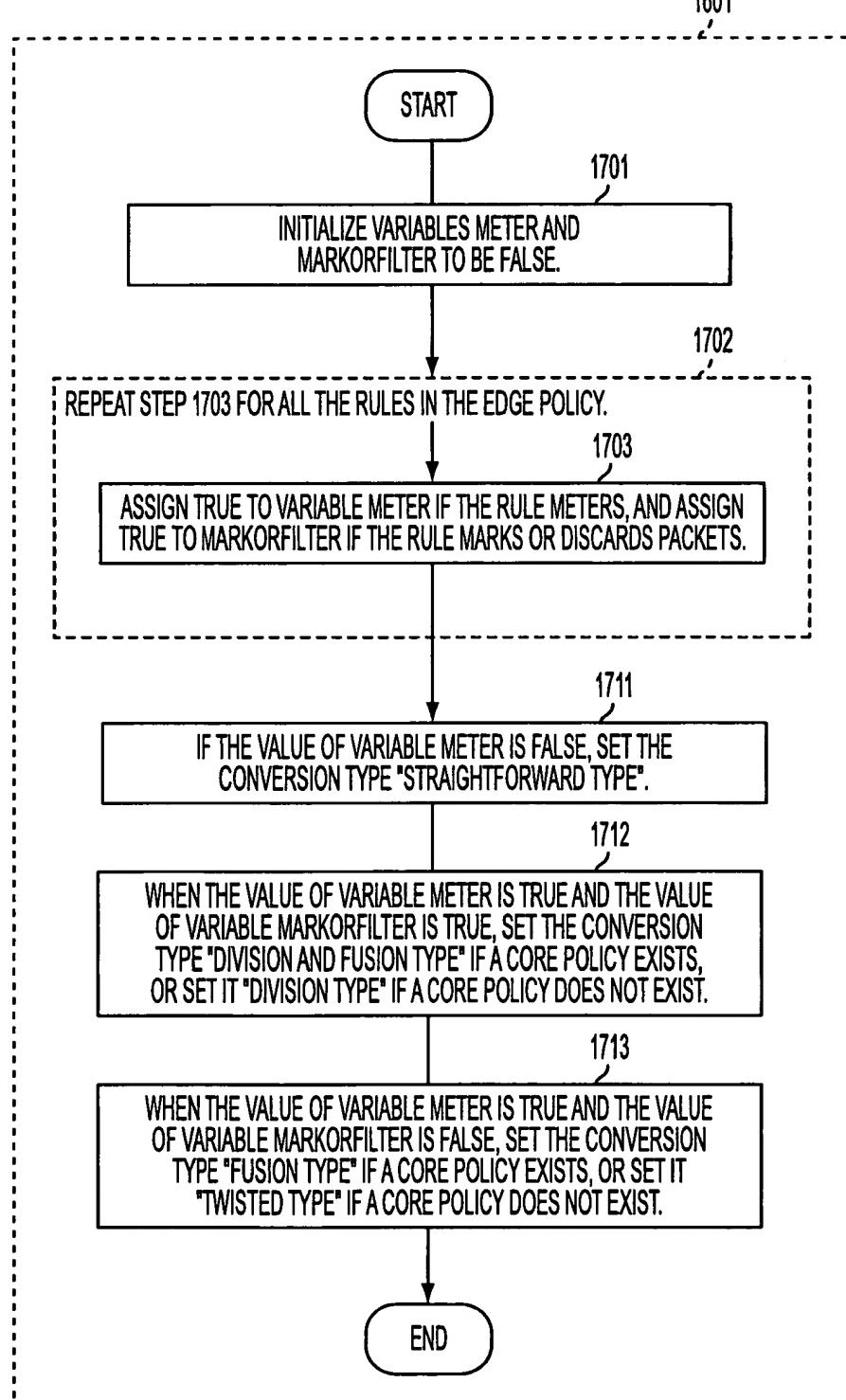


FIG. 17



DSCP	10	SCHEDULING_ALGORITHM = "PRIORITY"; QUEUE_PRIORITY = 5;	1611	1801
DSCP	18	SCHEDULING_ALGORITHM = "PRIORITY"; QUEUE_PRIORITY = 5;		1802
DSCP	46	SCHEDULING_ALGORITHM = "PRIORITY"; QUEUE_PRIORITY = 6;		1803
DSCP	-	SCHEDULING_ALGORITHM = "PRIORITY"; QUEUE_PRIORITY = 2;		1804

FIG. 18

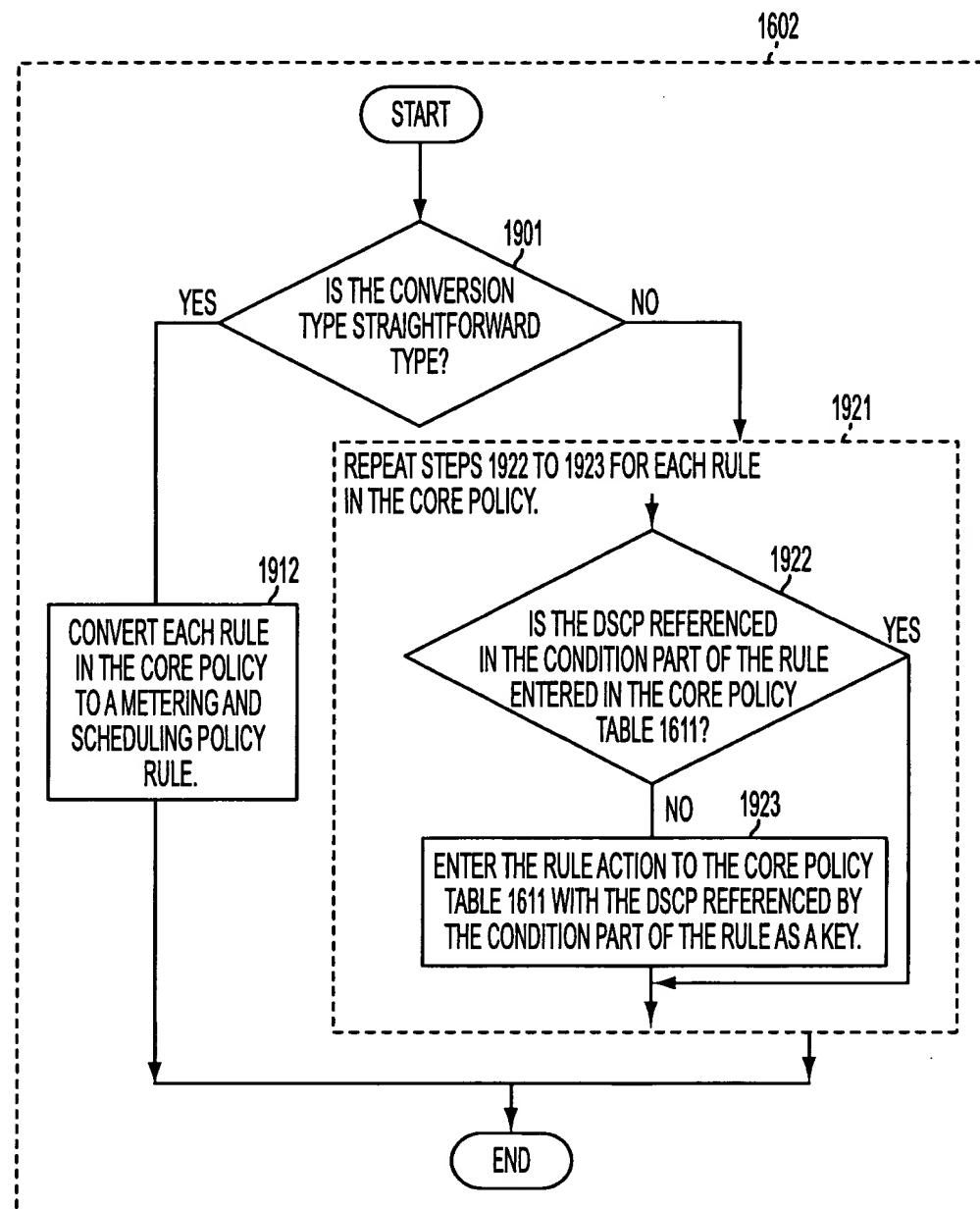


FIG. 19



1603

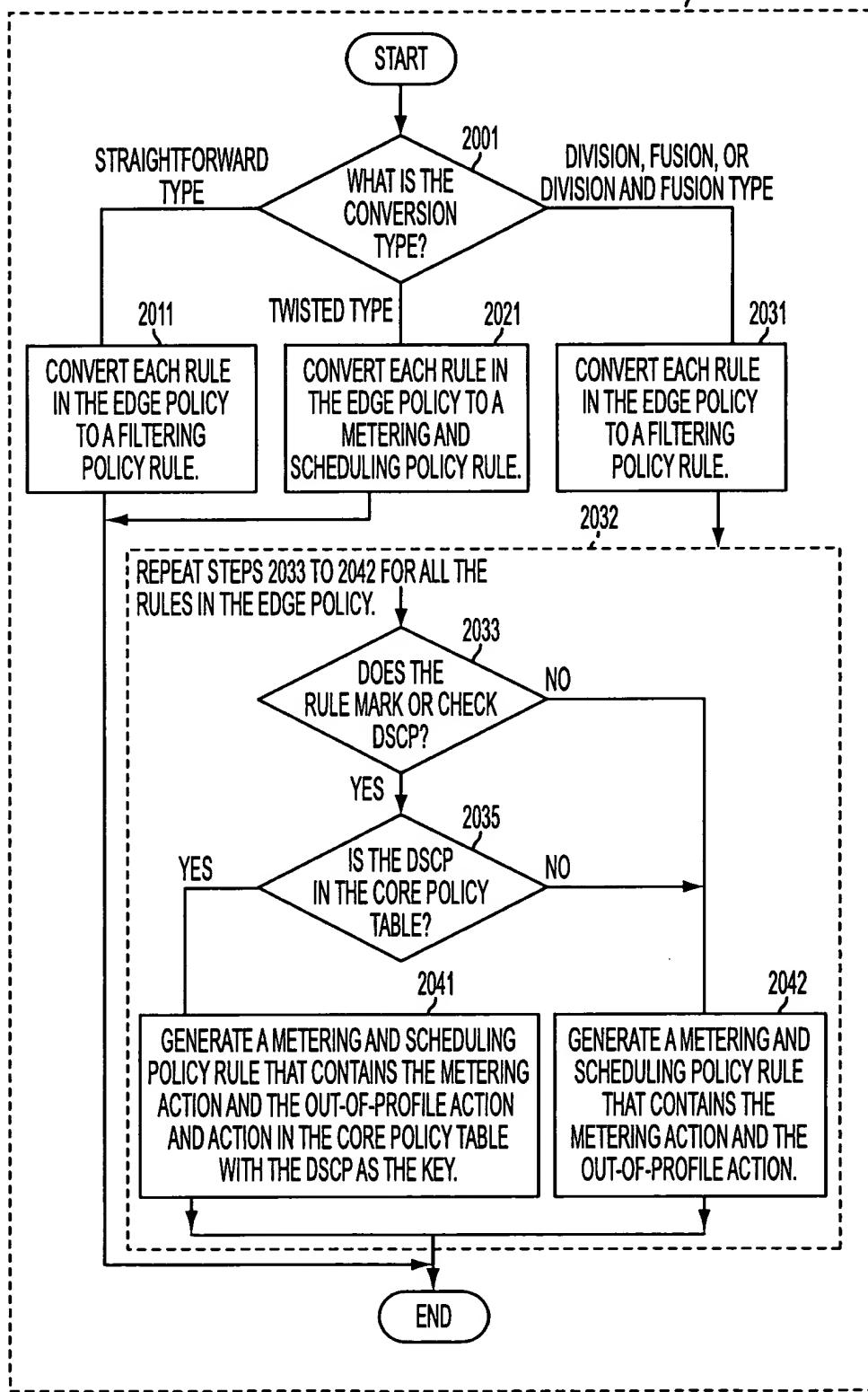


FIG. 20

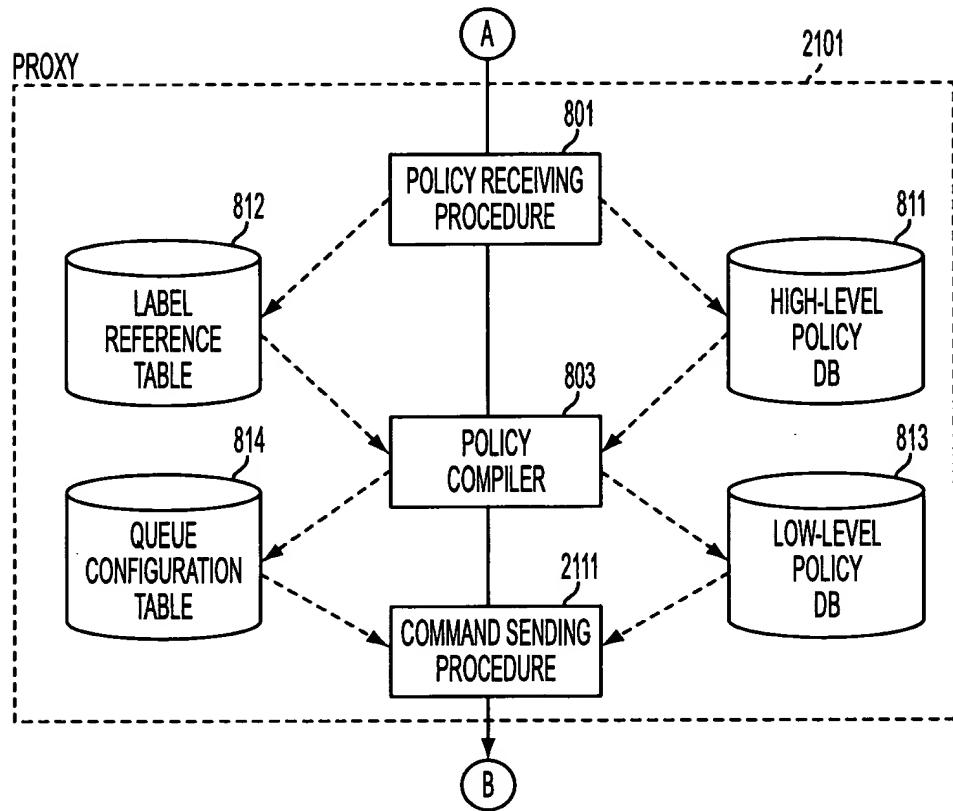


FIG. 21A

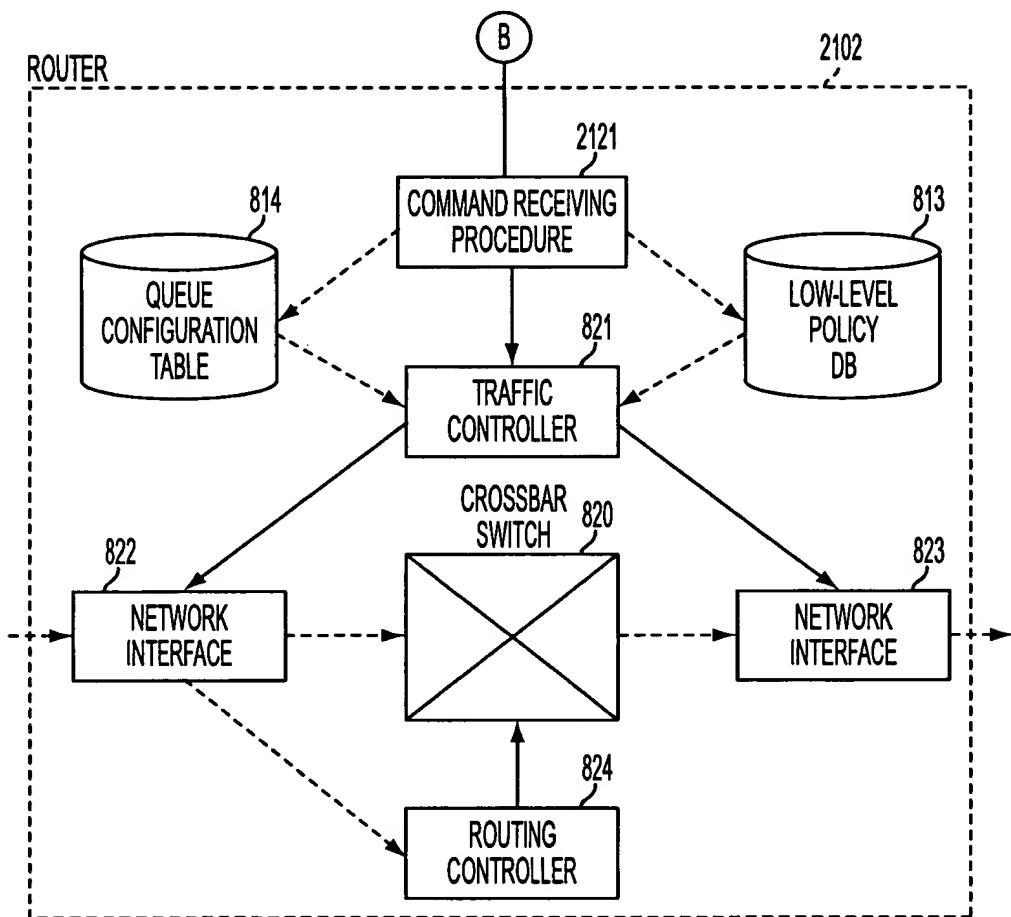


FIG. 21B

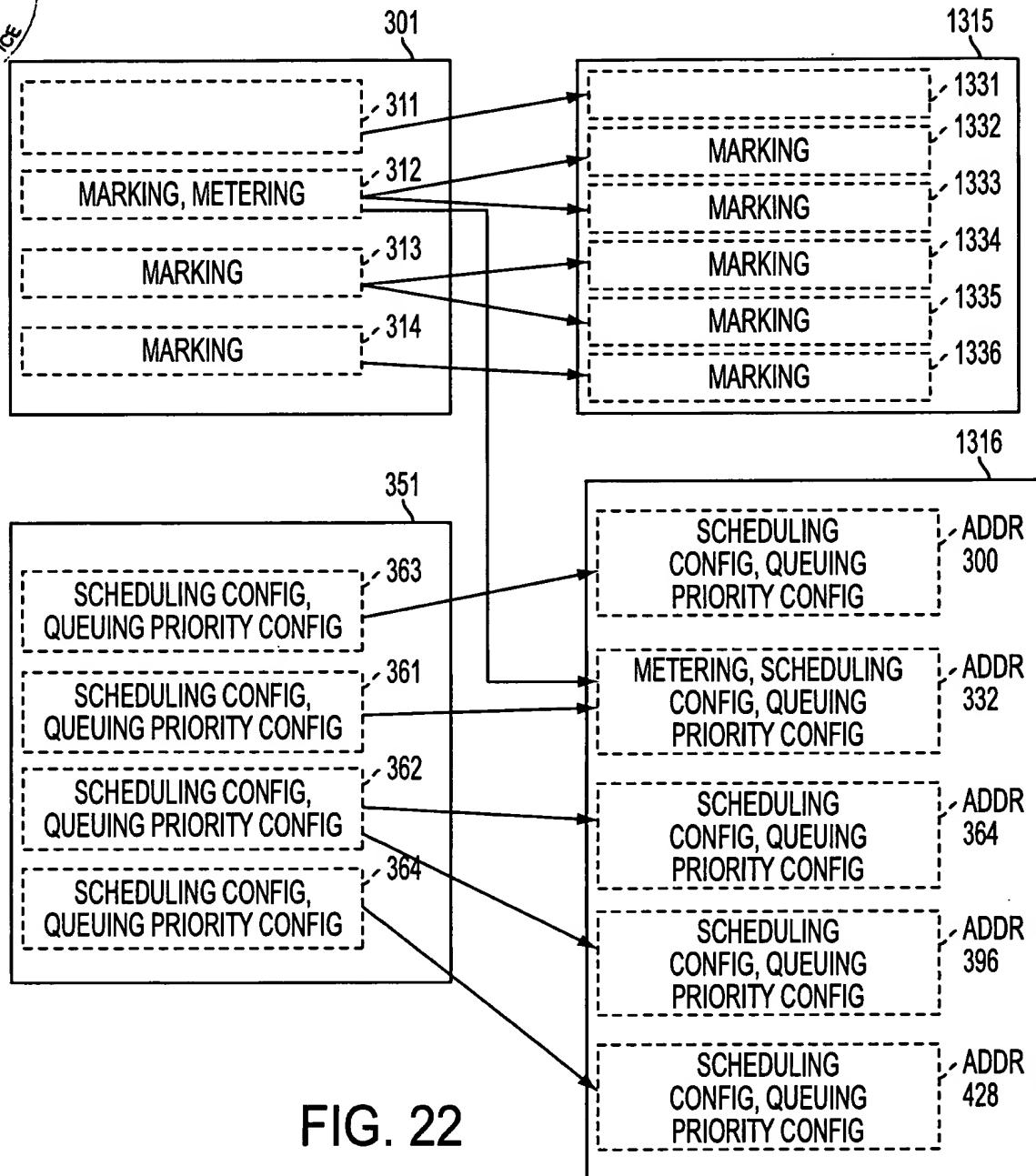
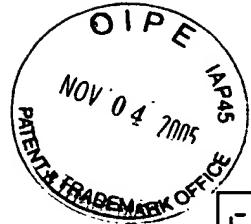


FIG. 22

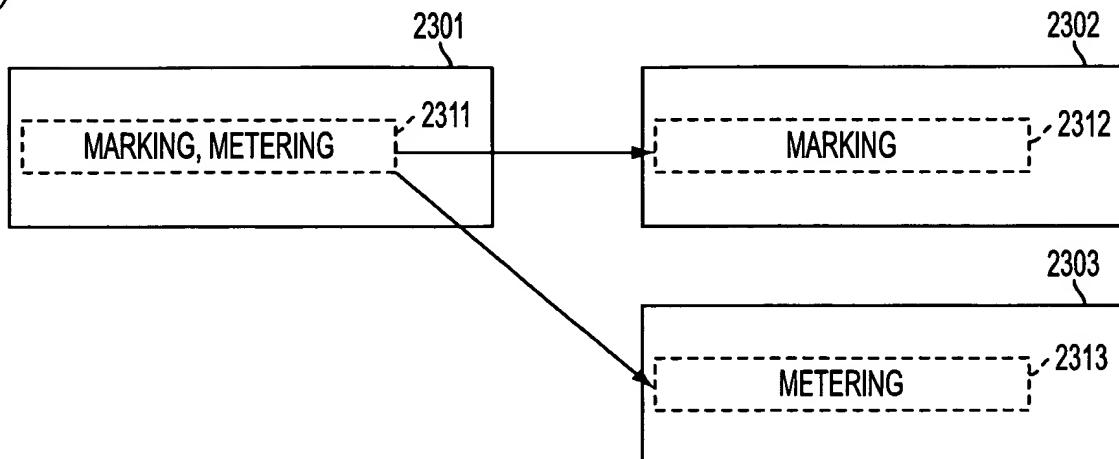


FIG. 23A

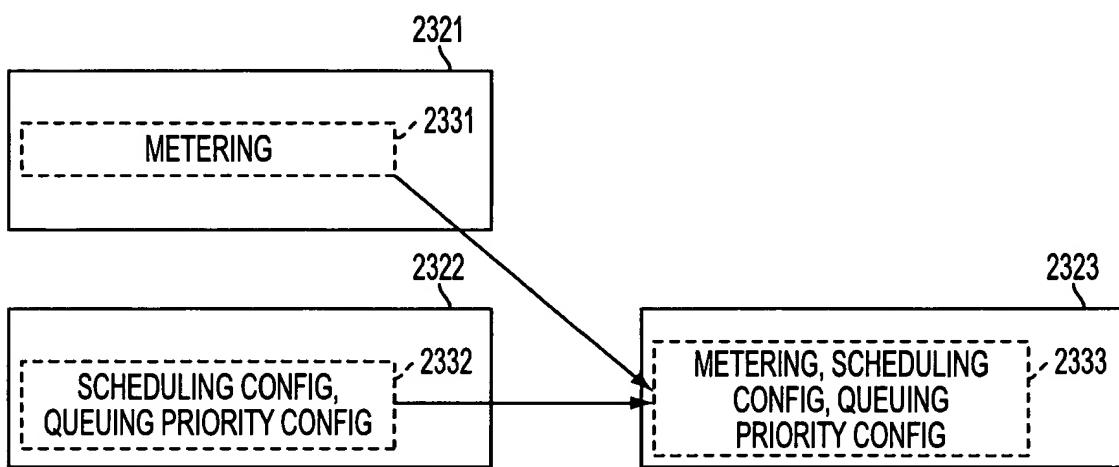


FIG. 23B